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## WHAT IS CLAIMED IS:

- An optical recording medium having a phase change recording layer containing antimony as a main component, in which recorded marks having a shortest length of up to 350 nm are formed.
- The optical recording medium of claim 1 wherein said recording layer further contains tellurium or indium or both as a main component.
  - 3. The optical recording medium of claim 1 wherein said recording layer further contains at least one element selected from the group consisting of germanium, nitrogen and rare earth elements as an auxiliary component.
  - 4. An optical recording method comprising the step of irradiating recording beam which has been power modulated between a high power and a low power, to the optical recording medium of any one of claims 1 to 3 for thereby forming amorphous recorded marks in the recording layer,

said recorded marks including shortest recorded marks having a leading edge and a trailing edge, at least a part of the trailing edge being convex toward the leading edge.

- 5. The optical recording method of claim 4 wherein the convex shape at the trailing edge of the shortest recorded marks is formed by causing the regions melted by irradiation of recording beam to crystallize.
  - 6. The optical recording method of claim 4 wherein the shortest recorded marks are formed so as to meet the relationship:

 $M_r \leq 0.4 \lambda/NA$ 

35 wherein the shortest recorded marks have a length  $M_L$ , the recording beam has a wavelength  $\lambda$ , and an objective lens of

a recording optical system by which the recording beam is transmitted has a numerical aperture  ${\tt NA.}$ 

7. The optical recording method of claim 4 wherein the 5 shortest recorded marks are formed so as to meet the relationship:

 $M_w/M_x > 1$ 

wherein the shortest recorded marks have a width  $\mathbf{M}_{w}$  and a length  $\mathbf{M}_{t}$  .